



CODESYS ENGINEERING

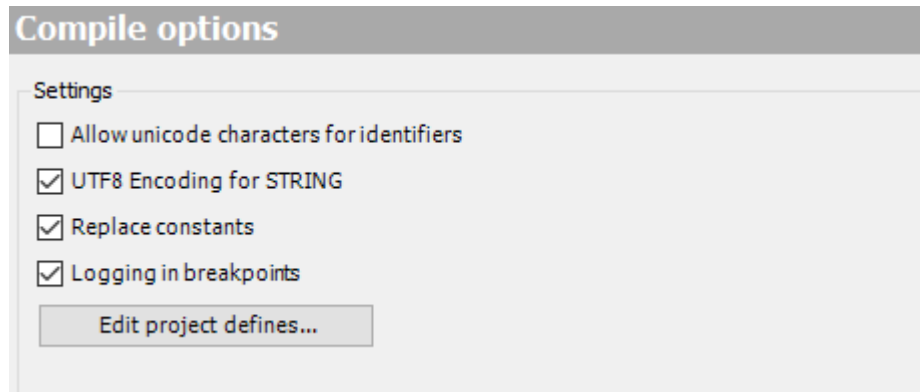
Compiler Features



CODESYS Feature Briefing, March 2024
Bernhard Reiter, Product Manager

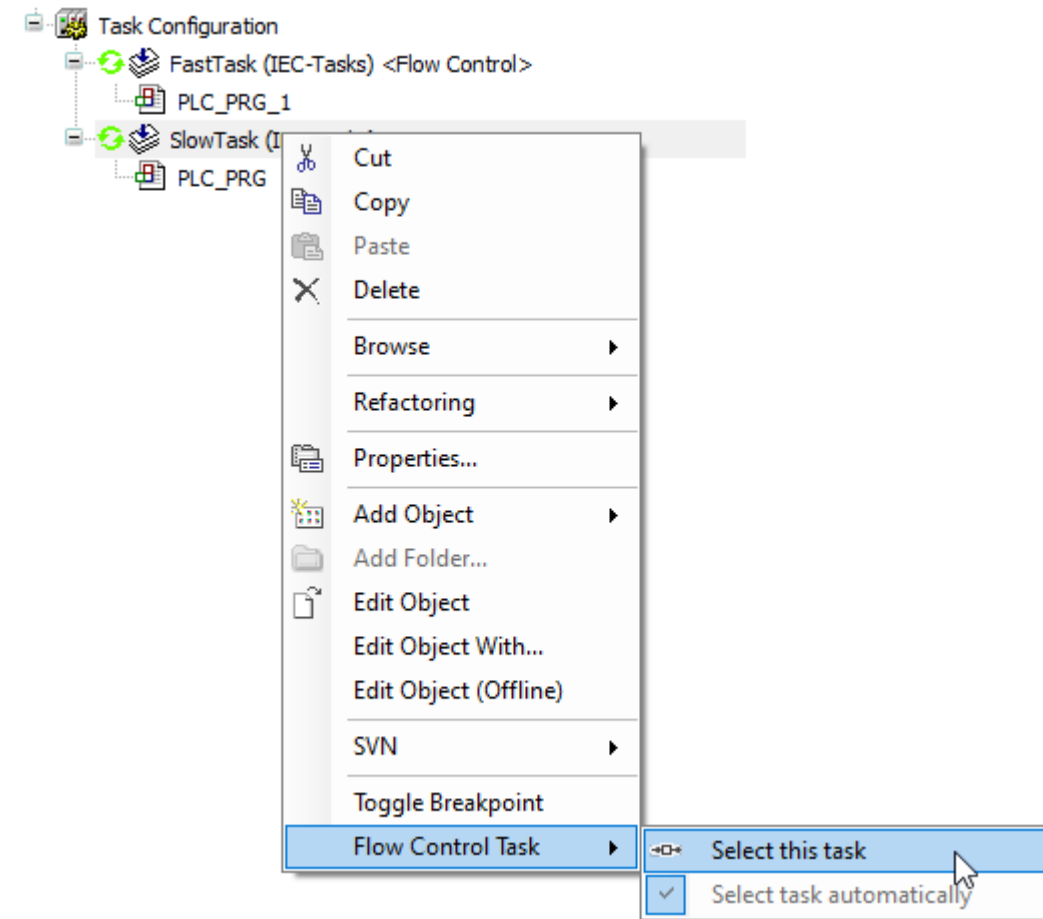
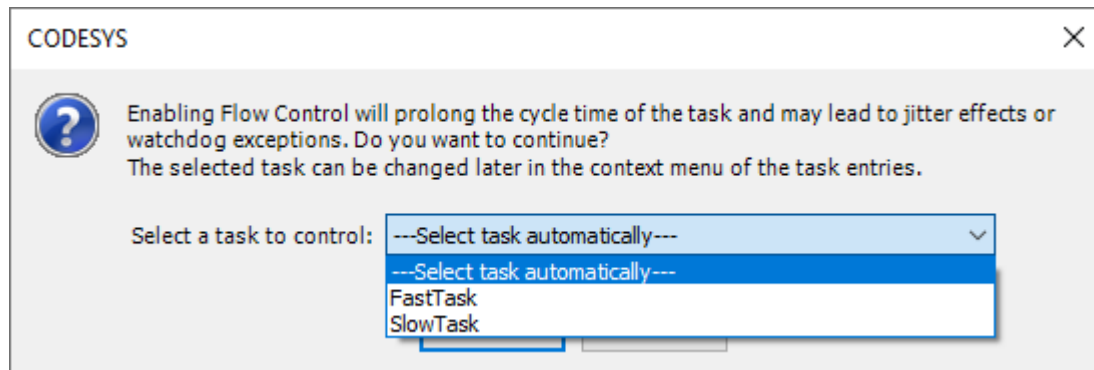
UTF-8 encoding for string literals – V3.5 SP20

- Option was introduced in V3.5 SP18
- **Disabled by default**
 - Developers could activate it for a project
 - Was not supported by all CODESYS features initially
- **Option is enabled by default when creating new projects in V3.5 SP20**
 - Not changing for existing projects when upgrading to V3.5 SP20



Flow Control Usability – V3.5 SP20

- **Usually flowed POU called in exactly one task**
 - Flowed values are monitored in the context of that task
 - Task is detected automatically by CODESYS
- **Autodetection of task not always possible**
 - Calling of instances using pointers or interface
 - Instance called in more than one task
 - Users should be able to explicitly specify task



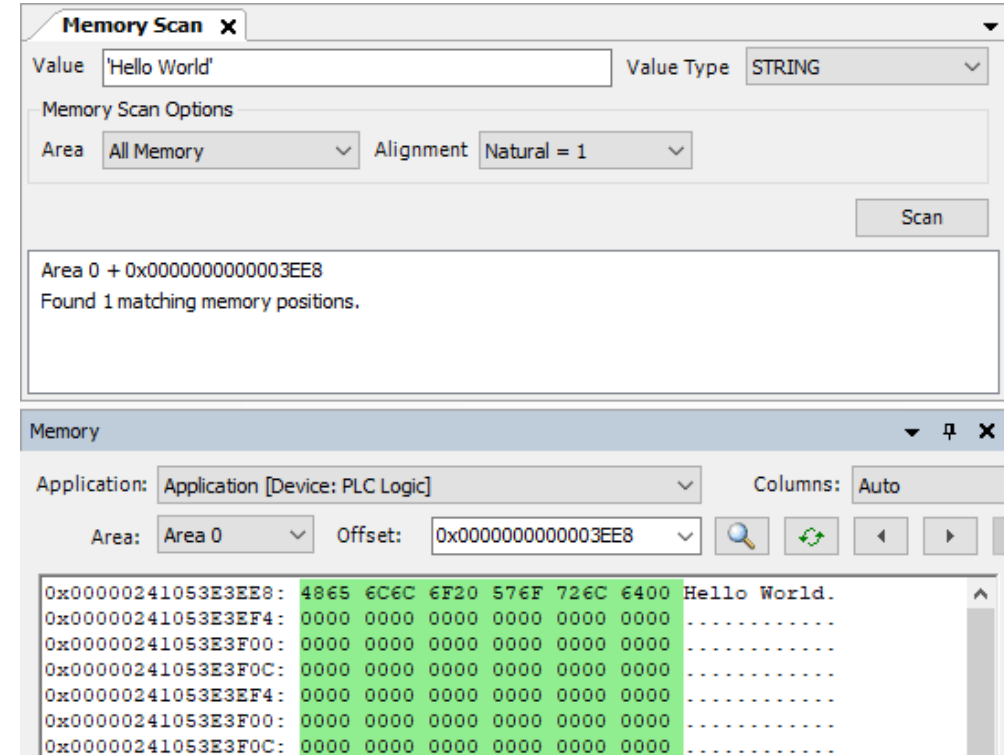
Flow Control on multicore – V3.5 SP20

- **Support for multicore redesigned**
 - Reduced performance impact on IEC task
 - Fixed sporadically occurring jitter on high priority IEC tasks
 - Rare deadlocks are fixed

Memory tools support application core dumps

- **CODESYS Memory Tools allow online inspection of application memory**
 - Advanced debugging tool allowing low level view of memory
 - Useful, for example, when memory corruptions are suspected
 - Automatic checking of memory for well-known issues supported

- **Memory tools will also be usable with application core dumps**
 - Releases of Core Dump and Memory Tools add-ons in second quarter





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